Cost Function Regression Coefficients

For all Flow by mode combinations

Coach from "Coach Costs" worksheet

D = Direction, B=Both

Rail from "Rail Fares" worksheet

MinCost = lower threshold of fare (if used)

Air from "AirNetwork.xls" "Air Pass Fare Regression" workshee Fnct, 1 = linear

DistPar, NtCsPar, TimePar, CnstCost, ExpDist = Passenger Fare regression coefficients, assume freight costs

NCHRP Rpt #388 Appendix F -- source for 1st cut \$/mile freight rates. Air Freight loosely based on Horizon intrastate air freight rates

NtCsPar =1, to pass through UTN[1] network charges (including node-specific constants/terminal handling costs)

functions create 1-way fares (50% of round trip fare)

AirPasenger Airport-specific constants, added to UTN[1] Road Station Connector link charges for the respective airports

Freight (truck, rail, air) terminal handling costs, added to UTN[1] Terminal connector link charge

PrivAuto ssumes \$0.06/mile, \$15/hour (except no time cost for commuting flow 1, and Biz trips,flows 8-9, at workauto rates)

WorkAuto for biz trips assumes \$0.10/mile, \$18.80/hour (flows 8-9)

WorkAuto for freight trips assumes \$0.1\text{Umile}, \$18.8\text{Umour}\$ (flows 6-9)

WorkAuto for freight trips assumes \$0.1\text{Umile}\$ (included in freight rate), \$16.5\text{Uhour}\$ (flows5-7,10-11)

Assumed PersTrips Value of Time:

Assumed Comm Driver wage:

Assumed BizTrips wage:

18.50

\$\text{hr/pers}\$

\$\text{hr/pers}\$

25% factor for schedule delay (all transit modes wait link)

UTF[6]					75% factor for time in-veh on business						
LINK INDEPENDENT COST FUNCTIONS			\$/m	\$/mile \$/min							
STAT	E blank blank if Znst=blank	1=linea		-	1, pass-tl	nru for U	TN[1] n∈	=0, for nonlinea	ar fctn only		
Flow Mode	ZnSt Dir MinCost.	Fnct	Dis	Par. N	ltCsPar.	TimePa	CnstCos	ExpDist.	Notes		
1	1	0	1	0.06	1	0	0	0	PrivAuto, commute		
2	1	0	1	0.06	1	0	0	0	PrivAuto, shopping		
3	1	0	1	0.06	1	0	0	0	PrivAuto, rec/other		
4	1	0	1	0.06	1	0	0	0	PrivAuto, vfr		
8	1	0	1	0.10	1	0.3133	0	0	PrivAuto, services (for rail/coach/AirPass)		
9	1	0	1	0.10	1	0.3133	0	0	PrivAuto, business promo (for rail/coach/AirPass)		
5	2	0	1	0.10	1	0.2750	0	0	Work drive, freight		
6	2	0	1	0.10	1	0.275	0	0			
7	2	0		0.10	1	0.275	0	0			
8	2	0		0.10	1	0.3133	0	0	Work drive, biz trips (services/biz promo)		
9	2	0		0.10	1	0.3133	0	0			
10	2	0		0.10	1	0.275	0	0	Work drive, Ext Truck Trips		
11	2	0		0.10	1	0.275	0	0			
3	3	5		874	1	0	5.5310	0	Coach passenger trave (No difference in business/passenger far	es)	
4	3	5		874	1		5.5310	0			
8	3	5		874	1		5.5310	0			
9	3	5		874	1		5.5310	0			
3	4	5		874	1		5.5310	0	Implicit Coach, same as coach service		
4	4	5		874	1		5.5310	0			
8	4	5		874	1		5.5310	0			
3	4	5 5		874 348	1		5.5310 5.4730	0	Dell necessary travel. (No difference in hypiness/secondary for		
4	- -	5						0	Rail passenger travel (No difference in business/passenger far	es)	
8	5 5			348	1		5.4730				
9	5	5 5		348 348	1		5.4730 5.4730	0			
3	6	40		777	1		44.6795	0	Air passenger travel - Leisure (RT/2)	subtracted 10 from Air CnstCos	
4	6	40		777	1		44.679	0	All passenger traver - Leisure (K1/2)	so UTN[1] apt-specific cost for	
8	6	40		554	1			0	Air passenger travel - Business (=2*leisure fare) (RT/2)	would be >0, added 5 it to all	
9	6	40		554	1		89.359	0	All passenger traver - business (=2 leistile fale) (N1/2)	airport connector links (2-links p	
3	7	0	1	0	1	0.200	5.625	0	Access/Egress	anport connector mate (2 mate p	
4	7	0	1	0	1	0	5.625	0	These 2 fields should be in UTF[7] but no parameter to do so.		
8	7	0	1	0	1	0.0783	7.05	0	30 minute average wait time assumed		
9	7	0	1	0	1	0.0783	7.05	0			
5	8	75	1	0.1	1	0	0	0	Medium Truck (\$0.10/mile + \$20.50 terminal transfer costs in U	JTN[1]), min local cost \$75 per Pc	
6	8	75	1	0.1	1	0	0	0			
7	8	75	1	0.1	1	0	0	0			
10	8	75	1	0.1	1	0	0	0			
11	8	75	1	0.1	1	0	0	0			
5	12	75	1	0.1	1	0	0	0			
6	12	75	1	0.1	1	0	0	0			
7	12	75	1	0.1	1	0	0	0			
10	12	75	1	0.1	1	0	0	0			
11	12	75	1	0.1	1	0	0	0			
5	9	75	1	80.0	1.25	0	0	0	Heavy Truck (\$0.08/mile + \$20.50 terminal transfer costs in UT	N[1]*1.25), min local cost \$75 pe	
6	9	75		80.0	1.25	0	0	0			
10	9	75		80.0	1.25	0	0	0			
11	9	75		80.0	1.25	0	0	0			
5	13	75		80.0	1.25	0	0	0			
6	13	75		3.08	1.25	0	0	0			
10	13	75		80.0	1.25	0	0	0			
11	13	75		80.0	1.25	0	0	0	B. F. J. J. W. W. J. B. B. C. J. J. J. B. B. C. J. B.	II A D	
5	10	0		0.03	1	0	0	0	Rail Freight (\$0.03/mile + \$37.50 terminal transfer costs in UTN	v[1])	
6	10	0		0.03	1	0	0	0			
5	14	0		0.03	1	0	0	0			
6	14	0		0.03	1	0	0	0	Ale Facility (60 00 lettle + 670 00 terralise) terral	M.D.	
6 7	11	0		3.00	1	0	0	0	Air Freight (\$3.00/mile + \$70.00 terminal transfer costs in UTN)	ערן	
6	11	0		3.00	1	0	0	0			
6 7	15	0		3.00		-	0				
,	15	U	1	3.00	1	0	U	0			

6/28/01